EMW

Restricted Circulation

This paper is not an official document; it is for information only and reference cannot be made to it in any printed publication without the permission of the author.

AGRICULTURAL MEMORANDUM NO 576

TRANSIT OF PIGS - DEATH IN PENS - L P SMITH

The number of pigs reported dead in pens on any one day, may not all have travelled on that day. Two adjustments of data are possible:

DIP_1 All pigs reported dead in pens on a day when no pigs are in transit are allocated to the previous day - clearly a minimum adjustment.

DIP_2 Pigs reported dead in pens on any day are allocated (in units of $\frac{1}{2}$ pig) to that or the previous day in consideration of the numbers travelling and the totals dead on arrival - this is subjective and is made irrespective of daily temperature and may be an over-correction.

Comparison of the results, after analysis with respect to mean daytime temperatures, is difficult. The DIP_2 curve is slightly smoother and is more highly correlated with the DOA curve.

The results are given in the Appendices and, for the most part, the adjustments show little effective difference, so that neither is likely to be far from the truth. At very high temperatures DIP_1 might be more acceptable.

Any comments or suggestions on this paper should be referred to the author.

Meteorological Office
Bracknell

September 1973

Appendix

Temperature Range (°C)	January - July				August - December			
	Total Pigs Carried	DOA	DIP_1	DIP_2	Total Pigs Carried	DOA	DIP_1	DIP_2
- 5 to - 4.1	2,710	0	2	1				
- 4 to - 3.1	5,156	1	0	1				
- 3 to - 2.1	9,693	2	2	2½				
- 2 to - 1.1	17,091	4	10	8	6,365	3	3	2
- 1 to - 0.1	36,178	9	9	8½	12,260	4	2	1½
0 to + 0.9	56,111	12	15	15½	21,223	0	6	4½
1 to 1.9	89,128	30	31	28½	41,535	9	13	15½
2 to 2.9	98,393	21	35	34	58,436	8	16	20
3 to 3.9	123,465	42	51	52½	64,610	17	17	17½
4 to 4.9	179,292	46	61	61	78,821	24	24	20½
5 to 5.9	185,383	55	66	66	88,870	23	32	38½
6 to 6.9	177,275	50	57	57½	125,143	38	36	39½
7 to 7.9	190,219	54	65	65½	158,814	44	75	65
8 to 8.9	254,335	79	70	79½	124,438	46	57	56½
9 to 9.9	214,579	79	70	63½	117,372	39	45	45½
10 to 10.9	215,485	78	85	93½	116,380	55	49	53
11 to 11.9	203,445	101	96	89	128,584	47	53	50½
12 to 12.9	197,496	84	79	85	185,314	77	79	71½
13 to 13.9	201,083	95	120	109	182,944	93	84	86½
14 to 14.9	191,166	111	100	99	209,063	96	102	94½
15 to 15.9	183,429	96	103	98½	239,095	132	116	117½
16 to 16.9	236,490	187	139	144	228,865	172	118	129
17 to 17.9	200,060	180	115	124	178,352	127	91	91½
18 to 18.9	145,660	150	106	109	130,975	120	100	93½
19 to 19.9	111,607	128	79	82	87,017	73	61	57½
20 to 20.9	54,633	84	67	62	56,482	75	47	52½
21 to 21.9	54,398	73	46	50½	23,447	30	16	16½
22 to 22.9	24,222	35	45	37	13,484	26	18	17½
23 to 23.9	11,627	24	32	31	2,698	7	4	4
24 to 24.9	4,334	22	19	17	-			
-					-			
27 to 27.9	2,464	35	13	15	567	0	1	1